



STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
& ENVIRONMENTAL CONTROL  
DIVISION OF AIR & WASTE MANAGEMENT  
89 KINGS HIGHWAY  
P.O. BOX 1401  
DOVER, DELAWARE 19903

WASTE MANAGEMENT  
SECTION

TELEPHONE: (302) 736-4781

*Galena*  
SEP 10 1986  
ORIGINAL  
(Red)

Duplicate Letter: September 15, 1986

July 31, 1986

Joseph Wutka  
Location Studies & Environmental Engineer  
Division of Highways  
Department of Transportation  
P. O. Box 778  
Dover, DE 19903

Re: Army Creek Tide Gate

Dear Mr. Wutka:

It has come to my attention from Dennis Carney, EPA Region III, that your division has the opinion that Waste Management would oppose tidal mixing in the lower reaches of Army Creek because of environmental concerns. This opinion was expressed in a letter from you to William Hoffman of EPA Region III dated July 10, 1986. On the contrary, this section would not oppose limited tidal mixing in the lower reaches of Army Creek.

The environmental concerns expressed previously by our section were targeted toward Red Lion Creek, and particularly the increase in mean water elevation in Red Lion Creek. The repaired tide gate on Red Lion Creek should have the following effects:

1. Reduce the mean water elevation in the Creek which will reduce potential flooding of neighboring landfills and Route 9.
2. Reduce the salinity wedge in Red Lion so that the water quality may be remediated to its targeted designation which is a potable water supply.

As for the Army Creek Tide Gate, its reconstruction should reduce the flooding of Route 9, but should not effect the contaminated transport from the Superfund Sites upstream.

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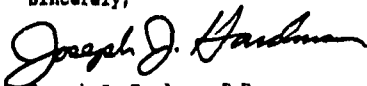
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(Red)

In conclusion, we would recommend limited tidal flushing in the lower reaches of Army Creek, but not Red Lion Creek. In our opinion, the two creeks are extremely different in their potential environmental effects.

If you have any further questions, please contact Augustus M. Mergenthaler at (302) 323-4554.

Sincerely,



Joseph J. Hardman, P.E.  
Acting Section Manager  
Waste Management Section

JJH:mag  
A:CMB1004.K

cc: Phillip G. Retallick  
Dennis P. Carney, EPA  
James Butch, EPA  
Rick Greene, Water Resources  
William Moyer, Water Resources

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